

What is claimed is:

1. A computer based method for supplying comparative information about at least two specified items out of a group of items belonging to any one category, each item of the group having a corresponding data entry in the computer's storage, the data entry including a name, at least one topic and information associated with each topic, the method comprising:
retrieving from storage data entries corresponding to the specified items;
among said retrieved entries comparing information associated with like topics; and
constructing one or more natural language sentences that reflect results of said retrieving and said comparing.
2. The method of claim 1, wherein there are also specified topics and said comparing is confined to the specified topics.
3. The method of claim 1 wherein said information associated with each topic includes at least one value, not all stored data entries of any group necessarily include identical topics and said comparing includes comparing values associated with like topics, if any.
4. The method of claim 3, wherein said comparing includes, for any topic common to at least two of the retrieved entries –
finding within said at least two of the retrieved entries any values that are mutually equal, grouping all items that correspond to any thus identified value together as a similarity group, noting their names and associating said group with said common topic and with said equal value.
If no equal values are found, noting the names and values of all corresponding items, in association with said common topic.
5. The method of claim 4, wherein said constructing includes constructing a natural language statement for each of said common topics which reflects respective results of substep (i) or substep (ii).
6. The method of claim 5, further comprising, for any item in any similarity group –
finding in the corresponding retrieved entry one or more values, if any, associated with the respective topic, that are different from the respective common value and noting any thus found value in association with the respective name and the respective topic; and
constructing a natural language statement that includes the name and values noted in substep (iii) and appending it to the statement that reflects results of substep (i) with respect to the noted topic.
7. The method of claim 5, further comprising –
identifying any topic that is not common to any two or more of the retrieved entries, and noting one or more values associated with the thus identified topic in the respective entry, together with the respective name; and
constructing a natural language statement that includes the name, topic and values noted in substep (v).

8. The method of claim 1, wherein –
any topic is associated with a range of values, extending between two extreme values,
and with a numerical scale whose minimum and maximum values correspond to
respective extreme values of the range, such a topic being a fuzzy topic;
in any data entry, the information associated with any fuzzy topic includes a position
number within the respective scale, which number corresponds to a value within the
respective range; and
said comparing includes, with respect to any fuzzy topic, comparing the respective
position numbers.
9. The method of claim 8, wherein said comparing includes, with respect to any
fuzzy topic, finding among said retrieved entries the highest and lowest position values,
dividing the values between them into one or more identifiable subranges, associating
each item with one of said subranges according to the corresponding position value and
grouping all items according to their associated subranges, noting their respective names
and noting for each group its respective subrange and the common topic.
10. The method of claim 9, wherein any fuzzy topic is further associated with a set of
relational words, appropriate to its range of values, and wherein said constructing
includes constructing, for any noted topic, natural language statements containing noted
names, and relational words that reflect positions of respective noted subranges relative
to each other or relative to said highest and lowest position values or relative to said
scale.
11. The method of claim 10, wherein any of the relational words refers to one end of
the range of values as being better or preferred relative to the other end.
12. The method of claim 10, wherein any of the relational words refers to one or more
values that are between the extremes of the range.
13. The method of claim 3, wherein said constructing includes:
providing a plurality of statement templates, whereby each possible combination of a
topic and a category of items is associated with a particular template;
inserting any names, topics and values resulting from said comparing into appropriate
places in an appropriate one of said templates.
14. The method of claim 13, wherein said constructing further includes combining a
plurality of said statements having at least one item in common into a sentence, using
connective words appropriate to the comparison-based relation between the respective
statements.
15. The method of claim 14, wherein said constructing further includes –
providing a library of connective phrases;
selecting one or more phrases from said library at random; and
concatenating a plurality of sentences that relate to a common category, whereby they are
augmented by said selected phrases.

16. The method of claim 14, wherein at least one topic is fuzzy and at least one topic has one or more values associated therewith and wherein said plurality of statements includes at least one statement relating to a fuzzy topic and at least one statement relating to one or more values.

17. The method of claim 8, further comprising creating in the computer storage a data entry, corresponding to any item for which such an entry does not exist, the data entry including –

a name,

at least one topic, at least one of which is a fuzzy topic,

and, associated with any fuzzy topic, a position number.

18. A program storage device readable by a computer, tangibly embodying a program of instructions executable by the computer to perform method steps for supplying comparative information about at least two specified items out of a group of items belonging to any one category, each item of the group having a corresponding data entry in the computer's storage, the data entry including a name, at least one topic and information associated with each topic, the method steps comprising: retrieving from storage data entries corresponding to the specified items; among said retrieved entries comparing information associated with like topics; and constructing one or more natural language sentences that reflect results of said retrieving and said comparing.

19. The storage device of claim 18, wherein said information associated with each topic includes at least one value, not all stored data entries of any group necessarily include identical topics and said comparing includes comparing values associated with like topics, if any.

20. The storage device of claim 18, wherein –

any topic is associated with a range of values, extending between two extreme values, and with a numerical scale whose minimum and maximum values correspond to respective extreme values of the range, such a topic being a fuzzy topic;

in any data entry, the information associated with any fuzzy topic includes a position number within the respective scale, which number corresponds to a value within the respective range; and

said comparing includes, with respect to any fuzzy topic, comparing the respective position numbers.

21. A computer program product comprising a computer useable medium having computer readable program code embodied therein for supplying comparative information about at least two specified items out of a group of items belonging to any one category, each item of the group having a corresponding data entry in the computer's storage, the data entry including a name, at least one topic and information associated with each topic, the computer program product comprising:

computer readable program code for causing the computer to retrieve from storage data

entries corresponding to the specified items;
computer readable program code for causing the computer to compare, among said
retrieved entries, information associated with like topics; and
computer readable program code for causing the computer to construct one or more
natural language sentences that reflect results of said retrieving and said comparing.